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**Automotive** Industry. By far, the main use of Mechanical **Simulation** products is in ... Vehicle parameters, advanced **electronic** chassis controls, ... New control strategies for drive-**by-wire** systems, can even be downloaded using the web. ...

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2. [Performance evaluation of vehicle network protocols for X-\*\*by-wire\*\* ...](#)

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For evaluations, the **simulation** models were developed by using a discrete event **simulation** ... Motor car ; Transmission protocol ; **Automotive electronics** ; ...

[cat.inist.fr/?aModele=afficheN&cpsidt=17554210](http://cat.inist.fr/?aModele=afficheN&cpsidt=17554210)

3. [Fault Diagnostics in Power \*\*Electronics\*\* Based Brake-\*\*by-Wire\*\* System.](#)

**BRAKE-BY-WIRE** EXPERIMENTAL AND **SIMULATION** STUDIES. In order to verify the brake-**by-wire** model motor and power **electronic** circuit behavior described in the ...

[ieeexplore.ieee.org/iel5/10416/33078/01554615.pdf](http://ieeexplore.ieee.org/iel5/10416/33078/01554615.pdf)

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Development of the **electronic** control unit for the rack-actuating steer-**by-wire** using the hardware-in-the-loop **simulation** system ...

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5. [Brake-\*\*by-wire\*\* - Wikipedia, the free encyclopedia](#)

Brake-**by-wire** technology is still under development by some **automobile** and **automotive** ... The **electronic** control unit must always be informed of the driver's intentions to .... Lee, Y., Lee, W.S., Hardware-in-the-loop **simulation** for ...

[en.wikipedia.org/wiki/Brake-by-wire](http://en.wikipedia.org/wiki/Brake-by-wire) - [Cached](#) · [Similar](#)

6. [SIMPLIFIED PORTABLE IN-THE-VEHICLE ROAD \*\*SIMULATOR\*\* - Patent application](#)

The portable **simulation** system is a computer-based driving **simulator**, which uses an actual drive-**by-wire** vehicle as an input device, and a portable display ...

[www.iaqs.org/patents/app/20090011389](http://www.iaqs.org/patents/app/20090011389) - [Cached](#)

## 7. The Design of a Controller for the Steer-**by-Wire** System

by SW OH - 2004 - [Cited by 8](#) - [Related articles](#)

and Han, C.-S., **Electronic** Control Unit for the. Steer-**by-Wire** System Using a Hardware-in-the-Loop-  
**Simulation** System, FISITA 2002 World **Automotive** ...  
[joi.jlc.jst.go.jp/JST.JSTAGE/jsmec/47.896?from=Google](http://joi.jlc.jst.go.jp/JST.JSTAGE/jsmec/47.896?from=Google) - [Similar](#)

## 8. A study on the brake-**by-wire** system using hardware-in-the-loop ...

by K Park - 2004 - [Cited by 6](#) - [Related articles](#)

A study on the brake-**by-wire** system using hardware-in-the-loop **simulation**. Kihong Park\* and Seung-Jin Heo.  
Graduate School of **Automotive** Engineering, ...  
[inderscience.metapress.com/index/BJJW4QAAUEKVTXR.pdf](http://inderscience.metapress.com/index/BJJW4QAAUEKVTXR.pdf)

## 9. X-**By-Wire** Automotive Systems - SAE BOOKSTORE

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Now retired, he is the editor of the **Automotive Electronics** Handbook and the Digital Consumer ... X-**By-Wire**  
**Automotive** Systems. ISBN: 978-0-7680-2100-4 ...  
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## 10. Model Based Controller Design for **Automotive Electronic** Throttle

by R Grepl

pedal and throttle is replaced by "drive-**by wire**" solution – pedal sensor and rotary ... Schema and photograph of  
**automotive electronic** throttle. Fig. 2. Overview of Real-Time **simulation**/computation techniques in the context  
of model ...

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Route packets, not **wires**: On-chip interconnection networks[psu.edu](#) [PDF]

WJ Dally, B Towles - Proceedings of the 33th Design ..., 1910 - doi.ieeecomputersociety.org

... distances across the chip. These **wires** are typically laid out by an auto-router late in the **design**. The continued viability of this methodology is challenged by several difficult **electrical** problems. First, unstructured **wires** have ...

[Cited by 1392](#) - [Related articles](#) - [All 54 versions](#)An exact zero-skew clock **routing** algorithm[utexas.edu](#) [PDF]

RS Tsay - ... on Computer-Aided Design of Integrated Circuits ..., 1993 - nthur.lib.nthu.edu.tw

... Many heuristics for clock **routing** have been proposed in the past. H-tree structures [1], [4], [10], [7] are the most widely used, especially in systolic array **designs**. A ... 1 Page 4. TSAY: EXACT ZERO SKEW CLOCK ROUTING ALGORITHM +, a C, d2+ i...+ % i - - - " - ... 245 wire 1 p ...

[Cited by 281](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)Integrated **electric design** system with automatic constraint satisfaction

SM Rubin - US Patent 5,050,091, 1991 - Google Patents

... 5 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS Introduction The invention provides an **electrical** circuit auto- 10 mated **design** system which integrates any desired number of analysis and synthesis tools with multiple and mixed technologies. ...

[Cited by 69](#) - [Related articles](#) - [All 5 versions](#)FPGA **routing** architecture: segmentation and buffering to optimize speed and ...[psu.edu](#) [PDF]

V Betz, J Rose - Proceedings of the 1999 ACM/SIGDA seventh ..., 1999 - portal.acm.org

... Vaughn Betz and Jonathan Rose Department of **Electrical** and Computer Engineering, University of Toronto ... **Routing** architecture **design** is very challenging because the best value for each of the ... of **routing** switches is dependent on the length of the FPGA's **routing wire** segments ...

[Cited by 97](#) - [Related articles](#) - [All 12 versions](#)[PDF] Automated **design** tool execution in the Ulysses **design** environment[rutgers.edu](#) [PDF]

M Bushnell, SW Director - ... on Computer-Aided Design, 1989 - calp.rutgers.edu

... integration of CAD tools into what may be viewed as a **design** auto- mation system. ... M. Bushnell

is with CAIP Research Center, Department of **Electrical** and Computer Engineering, Rutgers ... for handling some problems that prevent knowledge sources from satisfying **design** goals ...

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### The complexity of **design** automation problems

[psu.edu](#) [PDF]

S Sahni, A Bhatti - Proceedings of the 17th conference on Design ..., 1980 - portal.acm.org  
... (2) Number of **electrical** connections between subassemblies [LWL62],[HABA68]. (3) Maximum delay through the circuit [LEWL69]. ... No two **wires** may intersect. ... as a result of this, this paper will be concerned mainly with the worst case complexity of **design** automation problems. ...

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### [PDF] An expert system architecture to detect system-level **automotive** EMC ...

[mst.edu](#) [PDF]

..., DG Beetner, R Wiese, TH Hubing - 2002 IEEE ..., 2002 - scholarsmine.mst.edu  
... this file to best fit his experience, so the expert system may evolve with the **automotive design** process ... The raw **design** data in the local database, the module library, and EMC personality file is ... The algorithm will then assign **electrical** characteristics to each of these nets or circuits ...

[Cited by 14](#) - [Related articles](#) - [BL Direct](#) - [All 3 versions](#)

### Load current management system for **automotive** vehicles

WM Floyd, DL Juzsik - US Patent 4,639,609, 1987 - Google Patents

... for recognizing such intervals of the ergonomic aspects of the input switch **design** as well ... 65 required, importance to operation of vehicle, and ex- to provide an **electrical** power delivery ... expected duration of operation of the load, vehicle, such as an **automobile**, which allows ...

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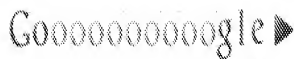
SS Kang, M Sehyun, SH Hah - Journal of Ship Production, 1999 - icad.kaist.ac.kr  
... and bilge discharge system, a fire and wash deck system, and an **electric** cable pipe system ... and Zwolinski, M., "Lee Router Modified for Global Routing," Computer Aided Design, 22:5 ... 3 Lee, Soo-Hong, "An Agent-based System for **Automotive** Wiring (in Korean)," Transactions of ...

[Cited by 17](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 6 versions](#)

### Method for physical VLSI-chip **design**

K Klein, K Polmann, H Schettler, U Schulz, OM ... - US Patent ..., 1989 - Google Patents  
... on the chip is logically divided into partitions that are manageable by the present **automatic design** ... is divided into several partitions and contains a high number of **electrical** elements as ... The physical **design** process covers the placement To overcome the need for global **wiring** ...

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NJ Boden, D Cohen, RE Felderman, AE Kulawik, CL ... - IEEE micro, 1995 - Citeseer  
 ... and a specialized version of the MCP handles the optical-fiber interface's **electrical** Myrinet port,  
 and ... L. Seitz, Nanette J. Boden, Jakov Seizovic, Wen-King Su, "The **Design** of the ... Chapter five  
 in Developments in Concurrency and Communication, edited by CAR Hoare, Addison ...

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[\[PDF\] Networks on chips: A new SoC paradigm](#)[psu.edu \[PDF\]](#)

L Benini, G De Micheli - Computer, 2002 - Citeseer  
 ... the commercial development of several physical **design** tools to support auto- mated **wiring**. ... When  
 using current technologies, most chip developers assume that **electrical** waveforms always carry ...  
 optimization and compactness while the other end favors ease of **design** and fast ...

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[\[PDF\] Hardware-software co-design of embedded systems](#)[tkk.fi \[PDF\]](#)

WH Wolf - Proceedings of the IEEE, 1994 - users.tkk.fi  
 ... The author is with the Department of **Electrical** Engineering, Princeton University, Princeton, NJ  
 08544 ..., just as the back-of-the-envelope calcu- lations for **automobile** and aircraft ... decomposition  
 of function into modules is an intermediate step in **software design**, which proceeds to ...

[Cited by 364](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)

[42 V—An indication for changing requirements on the vehicle \*\*electrical\*\* system](#)

K Ehlers, HD Hartmann, E Meissner - Journal of Power Sources, 2001 - Elsevier  
 ... mechanical instrumentation develops into a system diagnostics facility which, as a central system  
 function, additionally initiates and controls the structure, testing and possibly also the dismantling  
 of the **electrical** system in the car (Fig ... With appropriate **design**, grouping vertical ...

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[\[PDF\] ... Project- Centralized Versus Distributed Redundancy for Brake-By-Wire ...](#)[lth.se \[PDF\]](#)

NA Kelling, W Heck - 2002 - control.lth.se  
 ... **Design** of safety architectures that exploit the inherent redundancy of braking systems to

significantly lower the system cost while at the ... respects the ideas and requirements of different global players to make it an open standard for **automotive industry** ... Optical or **Electrical Buses** ...

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### Design considerations in Boeing 777 fly-by-wire computers

Y Yeh - Proceedings of the Third IEEE International ..., 1998 - doi.ieeecomputersociety.org

... **AUTO OFF** ... In general, the electronics components powered by the L/C/R flight **control electrical** bus controls the actuation components powered by the ... a) i) Requirement errors b) ii) Implementation misunderstanding c) **Software design** or coding error d) Future process errors ...

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### Accelerating Boolean satisfiability with configurable **hardware**

[ktupm.edu.sa](#) [PDF]

P Zhong, M Martonosi, P Ashar, S ... - In IEEE Symposium on ..., 1998 - eprints.ktupm.edu.sa

... Department of **Electrical Engineering**, Princeton University NEC CCRL ... Start- ing from a general template **design**, our approach auto- matically generates VHDL for a circuit that is specic to the particular Boolean formula ... The system accepts structural Verilog as **design** in- put. ...

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### [PDF] Esterel on **Hardware** [and Discussion]

[jstor.org](#) [PDF]

G Berry, CAR Hoare, WA Hunt - Philosophical Transactions: Physical ..., 1992 - jstor.org

... modification simplifies the cell **design** and the implementation of signal boolean expressions. ... nothing end would be incorrect since it would involve an unstable **electrical** loop through the parallel ... In all cases, logic duplication concerns only **control wires** and synchronizers. ...

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R Rutenbar, TN Mudge, DE Atkins - ... on Computer-Aided Design, 1984 - ece.iasiate.edu

... The authors are with the Department of **Electrical Engineering** and Computer Science, and the Computing ... to adjacent inter- changes enables each node to compute the change in **wire** length from ... Statelessness is a **design** choice, and is not fundamental to RPS organizations. ...

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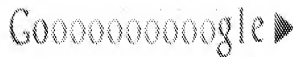
### Reconfigurable computing: a survey of systems and **software**

[psu.edu](#) [PDF]

K Compton, S Hauck - ACM Computing Surveys (CSUR), 2002 - portal.acm.org

... 3118; e-mail: kati@ece.northwestern.edu; S. Hauck, De- partment of **Electrical Engineering**, The ... Like PALs, FPGAs are fully electrically programmable, meaning that the physical **design** costs are amortized over ... with a true value, allowing a signal to flow from one **wire** to another ...

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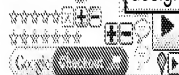
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by DD Gajski - 1995 - [Cited by 330](#) - [Related articles](#) - [All 8 versions](#)

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by M Baleani - 2002 - [Cited by 67](#) - [Related articles](#) - [All 26 versions](#)

date model of computation (Extended **Finite State Machines**) and derives both hardware and ... entire **design flow**, from high-level **specification** to hardware and ... ports on the register file limits the **input/output bandwidth** of the. FPGA array. ... Our goal is to automatically **partition hardware and software** and ...

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#### 6. Mapping Statecharts to Verilog for Hardware/Software Co-specification

by S Qin - [Cited by 3](#) - [Related articles](#)

**Hardware-Software co-specification** is a critical phase in co-**design**. ... We can combine this **mapping** with our previous formal **partitioning** process so as to .... It is an extension of conventional **finite state machines** (Mealy machine). ... the corresponding **output events**. Such a communication mechanism is similar to ...

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by A Kalavade - [Cited by 153](#) - [Related articles](#) - [All 19 versions](#)

For instance, a **finite impulse response filter** can be implemented either as an inner product or using .... The **input specification** is transformed into a set of constraints that is ... **software partitioning problem** in system-level **design**. ..... **Output**. : **mapping**  $M_i$  (.), implementation bin  $B_i^*$ , and start time  $t_i$ . ...

[citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.49.7809&rep..](http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.49.7809&rep..)

#### 9. EDAC

System-level modeling consisting of a functional **specification** plus modeling of the timing .... **Software** tools that perform or support **hardware/ software partitioning**, ... An **input, output**, or bidirectional buffer cell used to connect **design** .... EDA **software** tools that analyze **electrical signal behavior of wiring** ...

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A Model-Based Approach to System **Specification** for Distributed Real-time and Embedded ... and minimize **hardware/software** infrastructure dependencies; or ... Individual components can be understood as relations over their **input/output** histories. .... and automates the generation of such **partition and mapping**. ...

[www.ics.uci.edu/~radu/pubs/mdes-submission-05-19.doc](http://www.ics.uci.edu/~radu/pubs/mdes-submission-05-19.doc)

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JA Rowson, A Sangiovanni-Vincentelli - ... conference on Design ..., 1997 - portal.acm.org

... an ATM network, a computer network, an automotive engine control unit, a multipro ...

Sangiovanni-Vincentelli, PC McGeer, A. Saldanha, "Verification of Electronic Systems," Proc ... A.

Sangiovanni-Vincentelli, H. Hsieh, "Embedded System Co-Design," Hardware/Software Co- ...

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G Leen, D Heffernan, A Dunne - Computing and Control ..., 1999 - nicozone.free.fr

... OSEK/VDX aims to specify a standardised interface to allow the gelling together of hardware modules, network protocols and application software in a co-ordinated and intelligent fashion.

Design Specification Implementation TEST Analyses &amp; Design A ...

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L Benini, G De Micheli - Computer, 2002 - Citeseer

... One end of the spectrum favors software optimization and compactness while the other end favors

ease of design and fast turnaround time. ... The system software provides an abstraction of the

underlying hardware platform. ... The system software can control the informa- tion flow ...

[Cited by 1524](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 47 versions](#)Hardware monitoring of a multiprocessor system

AC Liu, R Parthasarathi - IEEE Micro, 1989 - doi.ieeecomputersociety.org

... probes that detect events: ' Hardware monitors, on the other hand, are electronic devices connected ...

While software monitors function at a logical level, their hardware counterparts work at a ...

Testability-an essential part of any hardware design-is imperative to the determination of ...

[Cited by 15](#) - [Related articles](#) - [All 5 versions](#)Time-triggered architecture: a consistent computing platform

R Maier, G Bauer, G Stöger, S Poledna - IEEE MICRO, 2002 - doi.ieeecomputersociety.org

... One of the main philosophies behind TTP/C design is that the protocol should transmit ... for the

large body of CAN-based **software** without requiring substantial **software** rewrites. ... We have evaluated a **hardware**-based CAN emulation, which is register compatible with widely used ...

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[PDF] Interface based **hardware/software** validation of a system-on-chip

[psu.edu](#) [PDF]

D Panigrahi, CN Taylor, S Dey - Proceedings of 5th IEEE HLDVT ..., 2000 - CiteSeer  
... of generality, a SoC consists of different types of components, such as **hardware** cores, processor ...  
cores running **software**, and/or programmable logic cores, and one or more communication ...  
The integration of components in a SoC involves **design**- ing proper physical interfaces ...

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Design environment and a design method for hardware/software co-design

K Van Rompaey, D Verkest, J Vanhoof, B Lin, I ... - US Patent ..., 1999 - Google Patents  
... 1996, pp. 1-30. De Man et al., "Co-Design of DSP Systems," presented at NATO Advanced Study  
Institute on **Hardware/Software Co-Design**, Jun. 1995, pp. 1-54. Berrebi, E., et al. (1996)  
Combined **control** flow dominated and data flow dominated high-level synthesis. ...

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[PDF] System **control** structure of the IBM eServer z900

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F Baitinger, H Eifering, G Kreissig, D Metz, J ... - IBM Journal of ..., 2002 - CiteSeer  
... Another attribute of the new z900 **control** structure is that, by using a high-end Power-PC-  
embedded controller, state-of-the-art **software** engineering techniques such ... Object-oriented **design**  
While examining the physical structure of the controlled **hardware**, the use of ...

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[CITATION] ... platform for dynamically reconfigurable system on chip **designs**

H Kalte, M Pormann, U Rückert - Proceedings of the IEEE Workshop ..., 2002

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[PDF] Multiparadigm modeling in embedded systems **design**

[140.116.245.161](#) [PDF]

KD Müller-Glaser, G Frick, E Sax, M ... - ... Transactions on Control ..., 2004 - 140.116.245.161  
... manual coding remains necessary for the integration of operating system or **hardware** specifics. ...  
community and is respected as a stan- dard in object-oriented **software** development. ...  
MÜLLER-GLASER et al.: MULTIPARADIGM MODELING IN EMBEDDED SYSTEMS **DESIGN** ...

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### 1. Physical layer is key in LIN designs

The LIN bus is a single-wire bus connected via a termination resistor to the positive ... In case of **master** node assignment, **slave** nodes have no predefined ... reduces the load on the microprocessor in the **electronic control unit** (ECU). ... is straightforward, since **hardware** and **software designs** are modularly ...

[www.eetasia.com/ART\\_8800523106\\_499495\\_NT\\_acb33845.HTM](http://www.eetasia.com/ART_8800523106_499495_NT_acb33845.HTM) - [Cached](#) - [Similar](#)

### 2. LIN networks meet embedded design challenges | John Day's ...

Sep 3, 2009 ... Single **Master**/Multiple **Slave** Concept - No arbitration required ... The main cost savings of LIN versus CAN are derived from the single-wire transmission, the low cost of implementation as **hardware** or **software** in silicon, ... of distributed networks with their associated **electronic control units** ...

[johndayautomotiveelectronics.com/?p=611](http://johndayautomotiveelectronics.com/?p=611) - [Cached](#)

### 3. Integrating sensor devices in a LIN bus network - Electronics ...

by C Gabriel - 2003 - [Cited by 5](#) - [Related articles](#)

... implies the addition of specific **hardware** to the sensor **design** or, additional **software** leading to significant CPU overhead (40% or .... microcontroller-based **electronic control units** (ECUs) ... by using the same **hardware** for both **master** and **slave** devices. ... wiring to less expensive multidrop cabling, realizing ...

[ieeexplore.ieee.org/iel5/8909/28167/01260504.pdf?arnumber=1260504](http://ieeexplore.ieee.org/iel5/8909/28167/01260504.pdf?arnumber=1260504)

### 4. System-On-a-Chip Design of Electronic Control Unit for Car Body ...

by L Hong-qiang - 2007 - [Related articles](#)

Furthermore **electronic control units** (ECUs) support drivers .... it is a **master** or **slave** component and information of all I/O ports of the component ...

[ieeexplore.ieee.org/iel5/4456352/4456353/04456362.pdf?arnumber...](http://ieeexplore.ieee.org/iel5/4456352/4456353/04456362.pdf?arnumber...)



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5. [\[PDF\] Resistance Is Futile—Electronics Are on the Rise \*\*Electronic ...\*\*](#)

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**Electronic control units** are an established part of today's vehicles and ... amount of complexity in a vehicle's **wiring** harness, the in-vehicle .... Interestingly, it is expected that a **master/slave** architecture will be implemented for the .... **hardware** and **software** suppliers to build products tailored to the ...

[www.ihsglobalinsight.com/gcpath/Electronics.pdf](http://www.ihsglobalinsight.com/gcpath/Electronics.pdf) - [Similar](#)

6. [Sorion Electronics, \*\*Hardware/Software\*\* Test Systems](#)

**Hardware** Engineering. Printed Circuit **Design** - Proteus / Cadstar ... CAN networks used in engine management connect several ECUs (**electronic control units**). ... These multiplex networks link door and roof control units as well as lighting control ... a single-**master/multiple-slave** concept, a single-**wire** 12V bus, ...

[www.wmccm.co.uk/WMCCM/DesktopDefault.aspx?tabindex=2...](http://www.wmccm.co.uk/WMCCM/DesktopDefault.aspx?tabindex=2...) - [Cached](#)

7. [Embedded.com - Understanding the LIN PHY \(physical\) layer](#)

Jan 28, 2008 ... LIN's lower cost results from the use of single-**wire** communications ... In the case of **master** node assignment, **slave** nodes have no pre-defined ... reduces the load on the microprocessor in the ECU (**Electronic Control Unit**). ... since **hardware** and **software designs** are modularly extended, with minimal ...

[www.embedded.com](http://www.embedded.com) · Columns - [Cached](#)

8. [Automobile information system - US Patent 6434459 Description](#)

While these various **electronic control units** have proven useful, .... In a **master/slave** architecture, the master control unit 24 acts as the master of the primary ... In traditional prior art systems, dedicated **wiring** is required for one ... of **software** applications and **hardware** peripherals on the support bus 30. ...

[www.patentstorm.us/patents/6434459/description.html](http://www.patentstorm.us/patents/6434459/description.html)

9. [Communications Standard Drives Development Of Vehicle Networks](#)

These assemblies used to be directly controlled by **wires** and switches. ... It's a single-**master** and multiple-**slave** protocol transmitted over a single-**wire** bus ... With LIN, **hardware** required to interface an **electronic control unit** to ... Volcano Communications Technologies will offer development tools and **software**. ...

[electronicdesign.com/.../communications-standard-drives-development-of-vehi.aspx](http://electronicdesign.com/.../communications-standard-drives-development-of-vehi.aspx) - [Cached](#)

10. Failure Management Development for Integrated Automotive Safety ...

by H Kimm - 2009 - [Related articles](#)

via more than 50 **Electronic Control Units** (ECUs), sensors and ... **master-slave** bus system. With LIN, message frames are sent at the speed of 20 Kbps. A single **wire** is used as the physical medium to exchange signals. .... performance, where system represents **hardware**, **software** or a process [3]. ...

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11. Book results for design hardware software electronic control units wires master slave

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### System design: Traditional concepts and new paradigms

[ktupm.edu.sa](#) (PDF)

A Ferrari · In International Conference on Computer Design, 1999 - eprints.ktupm.edu.sa

... The I/O dimension is a projection of a very complex space where characteristics such as number of digital I/Os, number of PWM channels, number of A/D converters, number of input captures and output Page 7. ... System Design Space Exploration Specification ...

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### [PDF] Integrated wiring system for construction equipment

[pusan.ac.kr](#) (PDF)

JM Lee, S Lee, MH Lee, KS ... - IEEE ASME ..., 1999 - robotics.ee.pusan.ac.kr

... compute control signals based on the command, eg, engine management **electronic control unit** (ECU) and ... Conceptual Design of Integrated Wiring System A. Conceptual Design An integrated wiring ... the status of the input signals from the attached electric components; • analog ...

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### Electrical control system for pneumatic brakes

A Maskery - US Patent 3,970,348, 1976 - Google Patents

... device of form known in the art moreover that in this example the emergency train line which amplifies an **electrical** signal in ... For ease of design the monosta- valve ... The outputs of the A block diagram of the basic **electronic control unit** 55 oscillators are mixed in a mixer formed by ...

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### Digital interface of an electrostatic power supply and turbine speed controller

JB Hamilton, JH Long - US Patent App. 09/755,790, 2001 - Google Patents

... There is also a possibility for extraneous **electrical** or electromagnetic interference (EMI) with the ... environment to an analog- to-digital converter which is located within the **electronic control unit**. ... Further, features and design alternatives that would be obvious to one of ordinary ...

[All 2 versions](#)

### Installation of Subsea Trees in Roncador Field, at 1800m Water Depth Using the ...

J Moreira, T Johansen - Offshore Technology Conference, 2001 - onepetro.org

... FMC Kongsberg Subsea is about to design and manufacture this unit and modify the ... to the subsea

control module through a silicon oil filled **electrical** jumper and ... in the superimposed communication between the subsea control module and the topside **electronic control unit** ...

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### Electronic apparatus for producing variable spectral output

KP McGuire, RE Hagerman - US Patent 5,569,983, 1996 - Google Patents

... of each of these US patents is hereby incorporated by reference into this **specification**. ... the color temperature of the individual sources, which apparatus is an **electronic control unit** and may ... stores, on the counters of cosmetic departments of department stores, in **design stu- dios** ...

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### Clutch slip control device and method of manufacturing the same, clutch slip ...

K Kono, H Ito, K Fukumura, S Nakamura, M ... - US Patent ..., 1998 - Google Patents

... 15 Frequency (rad/sec) 0) k\_ O) 0 < -200 • o \*\*s < u -400 c -600 **DESIGN** " MODEL GO ,  
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**INPUT z: CONTROL QUANTITIES PLANT OUTPUT** Fi g. 26 Augmented Plant , dl ...

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### Control method for switched reluctance motor

Y Sozer, DA Torrey, E Mese - US Patent App. 10/109,005, 2002 - Google Patents

... It is necessary to cope with these conditions using good engi- neering practice and **design**. ...  
automobile vehicle or other article/machine, a motor con- troller 6 electrically connected with  
the SR motor 10 and an **electric storage battery** 8, and an **electronic control unit** 7 of ...

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### The university of Missouri-Rolla, absolute Aitken nucleus counter

JL Schmitt, JL Kassner Jr, J Podzimek - Journal of Aerosol Science, 1982 - Elsevier

... temperature of the gas is steadily decreasing which is equivalent to applying a steady **electrical**  
**input** to the ... The chamber is operated by an **electronic control unit** that allows fully automatic  
operation. ... 5. The **design** of this valve is such that the air passing through its orifice goes ...

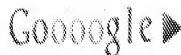
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### High-speed release system

HC Boters - US Patent 2,402,580, 1946 - Google Patents

... applied to an aerial camera, including a schematic **wiring** diagram of the **electrical** apparatus;  
and ... The **electronic control unit** 16 is provided with a light receiving conduit 18 having a photoelec-  
tric ... Further, because of the **design** of the holding magnet to permit a large pull for ...

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### Hydraulic master-slave steering system for a wide track vehicle

JD Sturgill · US Patent 4,263,979, 1981 - Google Patents

... steering motors 61, 63 and 65 is thus indirectly controlled by the **electronic control unit** 70 as ...  
The motor 65 102 is controlled by the operator and is the **master** or controlling motor ... Conversely, the motors 104,106, and 108 are **slave** steering motors for coordinating the steering ...

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### Electronic interface associable with an **electronic control unit** for an automatic ...

A Brundisini · US Patent 6,259,970, 2001 - Google Patents

... storing programming parameter 9. The electronic interface according to claim 8, further details for the **electronic control unit**, that are ... and said at least one communication channel to configure the electronic interface as **master** or as ... **slave** in a connection of a plurality of interfaces to a 14 ...

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### [PDF] How to make steer-by-wire feel like power steering

[ntnu.no](#) [PDF]

D Odenhal, T Bunte, HD Heitzer, C Eicker, ... - Proc. 15th IFAC World ..., 2002 - ntnu.no

... is the **output** of the power steering **electronic control unit** (ECU) or the control valve characteristics of the hydraulic system ... A bilateral teleoperation system consists of five interacting subsystems:

a) human operator, b) **master** manipulator, c) controller, d) **slave** manipulator and ...

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### Method for engine control

DM Letang, DJ Babcock, SM Weisman... - US Patent 5,483,927, 1996 - Google Patents

... practice utilizes electronic control units having volatile and nonvolatile memory, **input** and **output** ...

A particular **electronic control unit** communicates with a plethora of sensors, actuators, and other electronic ... little or no communication among themselves or with a **master** controller. ...

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### Control unit for an irrigation system

A Brundisini · US Patent 6,240,336, 2001 - Google Patents

... The a programmable **electronic control unit** having a plurality of microprocessor 12 drives the

display 5, and is connected to **output** control lines for the control of actuators of the keyboard 6 and to the ... Each control unit can be made to operate as a "**master**" or as a "**slave**". ...

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### HVAC control system for a multizoned vehicle

MJ Tao, RP Bertalan, SL Baker - US Patent 6,460,356, 2002 - Google Patents

... The processing unit 112 receives user **input** from the cab control head 32 through ... 26 and related components, the construction and operation of the sleeper zone **electronic control unit** 28 is ... toggle control 128, a vehicle zone selection control 130, a **master/slave** toggle control ...

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### ... controller-assisted, manually shifted, synchronized, **input** splitter-type compound ...

TA Genise, PJ Mason, TR Bockelmann - US Patent 6,105,449, 2000 - Google Patents

... The auxiliary sections most often were shifted by a **slave** actuator, usually pneumatically ... in response to manual operation of one or more **master** switches. ... Fully or partially automated transmission systems wherein a microprocessor-based **electronic control unit** (ECU) receives ...

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### Electronic control device for a valve range of modular design

K Stoll, T Lederer, D Ruckwied - US Patent 5,519,636, 1996 - Google Patents

... 1 a central **electronic control unit** 10 is designed in ... several valve ranges, connected together via the field bus 11, a control unit 10 would operate as a **master** unit with ... In a now arrangement on one side three **input** and/or **output** modules 14 through 16 are joined with this control ...

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### Electronic control apparatus for failure diagnosis

T Sekido, T Iwasaki... - US Patent 5,583,770, 1996 - Google Patents

... 3) correspond to the informing means; and the microcomputer of the **electronic control unit** 8 and the step ... system is composed of a **master** stations 100 and a plurality of **slave** stations 200 ... The **master** station 100 disposed in a central console of an automotive vehicle is provided ...

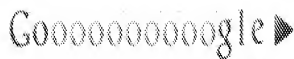
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### Electronics for He-Ne-I stabilized laser with digital control

J Lazar, O ·ip - Review of Scientific Instruments, 1997 - link.aip.org

... The main aim of the design of a new **electronic control unit** was the attainment of a better noise suppression, higher reliability and better user comfort during operation. ... The communication protocol is a **master-slave** type (Fig. ) where the PC computer is used as a **master**. ...

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A Node as a Unit of Failure ... for Field Bus Applications 185 Points to Remember 188 Bibliographic  
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[151.100.37.12](#) [PDF]

A Furnagalli - [IEEE Communications Magazine](#), 2001 - [151.100.37.12](#)

... technology offers a practical way to exploit the bandwidth of fiber optics, by partitioning the optical ...  
the per-slot processing of the PSR node alleviates the burden on the electronic control by a ... the  
bufferless case ( $dl = 0$ ) and some theoretical bounds [6]. An SDL unit with only five ...

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[CITATION] [Programming and customizing the AVR microcontroller](#)

DV Gadre - 2000 - McGraw-Hill/TAB Electronics

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H Lönn - [Doktorsavhandlingar vid Chalmers Tekniska Högskola](#), 1999 - [CiteSeer](#)

... has the same purpose as its centralized counterpart, namely to get input from the ... However, the  
partitioning into several cooperating computers means that these units can be placed close ...  
although replicated and fault tolerant, control computer, all functions rely on the same unit. ...

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[PDF] [Data Communication Systems in Nuclear Power Plants](#)

[ntnu.no](#) [PDF]

GG Preckshot, RH Wyman - ... [Livermore Nat. Lab.](#), [Livermore, CA](#), Tech. ..., 1993 - [itk.ntnu.no](#)

... Examples include Ethernet, the IEEE 802 networks, various proprietary "multi-drop" networks,  
and FDDI. A "deterministic" communication system delivers messages within a finite,  
predictable time delay that is a function of system communication load. ...

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Robust shape control of flexible structures using strain-measurement-gauges and ...

M Enzmann, C Linz, T Theis - ... and Robotics, Harrogate, UK, 6-8 ..., 1998 - books.google.com

... The **finite** element results for the natural bending frequencies showed good agreement with analytical ones (Table ... An active control system increases the sound power transmitted through the double panel **partition**. ... LX, Ly dimensions in X-and Y-direction m/mass per unit area p ...

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CUBE (Computer Use By Engineers) symposium abstracts

JJ Ruminer - CUBE symposium abstracts, 1978 - osti.gov

...': allows the memory **partitioning** as well as easily changing colors ... It accepts meshes generated by several LLL **finite** element mesh aenerators (eg, ZONE). ... computer simulation may be used to identify desirable features of a storage **unit** and estimate their value to a utility. ...

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[book] Photonic slot routing in optical transport networks

G Wedzinga - 2002 - books.google.com

... in the same time slot (termed a photonic slot) are treated as a single **unit**, and jointly ... WDM **partitions** the op- tical bandwidth into independent parallel channels, each at a different wave- length ... First, since the number of wavelengths and links in a network is **finite**, generally not all ...

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Process control configuration system with parameterized objects

PS SCHEME - Transfer, 1978 - freepatentsonline.com

... January, 1988 - 4719593 Logically transportable microprocessor interface control **unit** permitting bus ... September, 1995 - 5452201 Flexible multi-platform **partitioning** for computer applications Butterworth et al. ... February, 2000 - 6026352 **Electronic control** system and method ...

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### Control tensioner device for an engine

N Korenjak, H Kusei, J Holzleitner - US Patent App. 09/794,239, 2001 - Google Patents

... These engines have the advantage that their emissions **output** are generally desirably lower as compared to a two-cycle engine for a given power **output**. ... Furthermore, the crankcase 10 is formed with ver- tical **partitions**, as shown in FIGS. ...

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... A distributed control system has the same purpose as its centralized counterpart, namely to get **input** from the environment through its sensors and give **output** to the controlled object using its actuators; it also has the same requirements. However, the **partitioning** into several ...

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### Four stroke engine having flexible arrangement

G Ohrnberger, N Korenjak, A Wolfsgruber, ... - US Patent App. 09/ ..., 2001 - Google Patents

... These engines have the advantage that their emissions **output** are generally desirably lower as compared to a two-cycle engine for a given power **output**. ... Furthermore, the crankcase 10 is formed with ver- tical **partitions**, as shown in FIGS. ...

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### Four stroke engine having blow-by ventilation system and lubrication system

R Tscherne, A Wolfsgruber, R ... - US Patent App. 09/ ..., 2001 - Google Patents

... When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power **output** or the like. With concern ...

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### Four stroke engine having a supercharger

M Sonnleitner, N Korenjak, M ... - US Patent App. 09/ ..., 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other

generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power output or the like. ...

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#### Four stroke engine having power take off assembly

M Aichinger, R Tscheme, A Wolfsgruber, M ... - US Patent App. 09/ ..., 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power output or the like. ...

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#### Four stroke engine with intake manifold

A Bilek, A Wolfsgruber, M Hochmayr - US Patent App. 09/794,237, 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power output or the like. ...

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#### Four stroke engine with cooling system

R Tscheme, A Wolfsgruber - US Patent App. 09/794,219, 2001 - Google Patents

... things. When measures are taken to reduce emissions of the two-cycle engine, other generally undesirable consequences can result, such as an increase in the weight of the engine, a reduction of its power output or the like. ...

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[... verification of safety critical software for a brake-by-wire system with synchronous ...](#)[psu.edu \[PDF\]](#)

M Gunzert, A Nägele - International Symposium on ..., 1999 - doi.ieeecomputersociety.org

... This architecture has been integrated in a prototype car at DaimlerChrysler Research. ... The system architecture consists of a set of two redundant **electronic control** units (ECU) for ... functions powerful specialized tools like Matlab/Simulink or MatrixX providing **simulation** and code ...

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Control Engng Practice, 1999, 7, 1343-1356. 6 Linjama ...

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A Balluchi, L Benvenuti, MD Di ... - ... of the IEEE, 2000 - embedded.eecs.berkeley.edu

... car- ried out using a mix of heuristic techniques validated by **simulation** and prototyping ... attention to specifica- tions related to force requests in the longitudinal motion of the car. ... they are often obscured by considerations involving the implementation of the **electronic** subsystem. ...

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M Chiodo, P Giusto, A Jurecska, HC Hsieh, ... - IEEE ..., 1994 - doi.ieeecomputersociety.org

... In virtually all vehicles man- ufactured since the mid 1980s, an **electronic device**-the engine ... Designers can use **simulation** to comple- ment verification, thus quickly ruling out special cases that ... This article does not address directly the issue of auto- mated partitioning; rather it ...

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... To support precise specifications, a **simulation** environment together with an engineering

spreadsheet tool is highly ... a set of operations to the programmable components of the **electronic** architecture ... **Hybrid Control in Automotive Applications** 459 Y< k) r< IO <»^Λ KK).- " r^ 7 i z ...

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... available services allow to visualize and compare faulty and normal **simulation** results, to ...  
applications of MDS dealt with automating the workshop troubleshooting of car electric-**electronic** ...  
ABS) model is shown in Figure 2. Wires connect the ABS **electronic control unit** (ECU) via ...

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[Generating Automotive Electrical System Models from Component Based ...](#)

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... **Electronic Control Units** ECU components are microprocessor based modules that may contain  
significant internal states ... algorithm described in this paper has been implemented (in Java) and  
several **automotive system** circuits ... The qualitative nature of the **simulation** allows the ...

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... controllers to compute **control** signals based on the command, eg, engine management **electronic**  
**control unit** (ECU) and ... Based on the input values, the **simulation** model generates the following  
output values: • number ... 2. JUNE 1999 0 Auto/manual s/w 1 Brake sto 2 Auto cruise ...

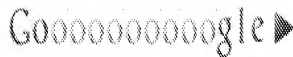
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T Ringier - Lecture notes in computer science, 2000 - Springer  
... system is available, there is still a lack of deterministic application software design approaches  
in the **automotive** sector. ... (In the prototype a **simulation** tool for ... as presented in [5]. In the following  
the code will be discussed which has been generated for the **electronic control unit**. ...

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A simulation environment for core based embedded systems

F Pétrot, D Hommais, A Greiner - Annual Simulation ..., 1997 - doi.ieeecomputersociety.org

... The Bus **Control Unit**, BCU, has two generic combinatorial, or Mealy, paths - the grants to give the ... Embedded system **simulation** is of great importance for the validation of tomorrow's systems. ... that is compatible with the present state-of-the-art standards in digital **electronic** design ...

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A Balboni, W Fornaciari, D Sciuto - Design Automation for Embedded ..., 1996 - Springer

... competition with the EDA (**Electronic** Design Automation) tools composing the ESDA (**Electronic** System Design ... software needs to be considered at a lower level, to carefully **control** time delay ... solution provides the possibility of achieving a fully VHDL based co-simulation of each ...

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S Antoniazzi, A Balboni, W Fornaciari, D ... - Proceedings of the 3rd ..., 1994 - portal.acm.org

... see [8], [9]. A commercial environment (SPeeDCHART by Speed **Electronic**) has been ... Finally, the SPeeDCHART environment also allows system validation by **simulation**, including visual ... Zero-flagged counter variables with decrement **control**, introduced by transformation d ...

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MJ Flynn - IEEE Transactions on Computers, 1972 - doi.ieeecomputersociety.org

... 7090 an allocation algorithm to access or modify the memory itself haas a trivial **control** tree. ...

**Partitions** are defined on physical resources which two considerations: 1) the latency for interstream com- ... and tii is the minimum entry for a row) is entered for the "data" unit should be ...

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R Ilman, S Clarke - IEEE Design &amp; Test of Computers, 1990 - doi.ieeecomputersociety.org

... For each test style, we set a maximum limit of 220 patterns to hold down the test time and the



cost of the fault-free **simulation** to determine the signatures. ... This is particularly hard to accomplish for **control** logic, which tends to be irregular in nature. ... Figure 4. Testable unit. ...

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B Tomescu, HF VanLandingham - Soft computing in industrial ..., 2002 - books.google.com  
... simplified averaged linear models.[3]-[6]; and, even in the case of a single unit, it has ... educated heuristic approaches since even after some analysis, they still use an iterative **simulation**-experimentation process ... **Control** scheme used for paralleling W converter modules with MSC ...

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I Celanovic - 2000 - scholar.lib.vt.edu  
... 4.2.1 Hardware Manager **Control Unit** (HMCU) \_\_\_\_\_ 70 ... 83 Fig. 4-20. **Simulation** timing waveform of a byte-wide CRC generator. .... 84 ... processor (DSP) code module, or a whole **control** algorithm or something else. In that ...

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HR Carleton, JQ Broughton - US Patent 4,855,903, 1989 - Google Patents  
... "Design and **Simulation** of an ... BACKGROUND OF THE INVENTION The invention pertains to **electronic** computers. ... 4,855,903 5 6 such intra-partition processing to either other dedicated **control** of a synchronizer and a **master** processor and a processors or to a **master**-controller ...

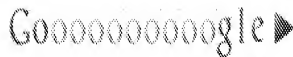
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... Jan M. Rabaey As **electronic** systems become more complex and gather more and more functionality, the attention of the ... Profiling (**simulation** based) to ... An example of a module, implementing a robot **control**-ler and generated using the C2Silicon and LAGER [10] systems, is ...

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paper, the capabilities of ISOBUS to be used for **X-by-Wire** applications are ..... (**TTA**) or hybrid protocols (time- and event-triggered) becomes essential. ...

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